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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID	:	**CP-RW-2017-03-13-04** **Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	Coarse Aggregate for DBM (Dense Bituminous Macadam)
Date of test	:	14-03-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2203	2205	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1412	1477	
4	Weight of Saturated Surface Dry aggregate	B	grams	2291	2392	
5	Weight of oven dried aggregate	C	grams	2287	2387	
6	Specific gravity	C/(B-A)		2.60	2.61	2.61
7	Apparent Specific gravity	C/(C-A)		2.61	2.62	2.62
8	Water absorption	100*(B-C) /C	Percent	0.17	0.21	0.19

Note:-
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Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-03-13-04 **Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	14-03-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.56	90-100
19	1013	1185	23.70	76.30	71-95
13.2	520	1705	34.10	65.90	56-80
4.75	1150	2855	57.10	42.90	38-54
2.36	718	3573	71.46	28.54	28-42
0.3	1000	4573	91.46	8.54	7-21
0.075	160	4733	94.66	5.34	2-8
PAN	267	5000	0.00	0	0

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-03-13-04** **Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	13-03-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

Note:
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2017-03-13-04 **Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	13-03-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.28	11.55	9KN(Min)
2	Marshal flow at 60°C, mm	3.43	3.52	2-4
3	Percent air Voids	4.17	4.24	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.87	14.65	13-15
5	Percent Voids filled with Bitumen(VFB %)	67.64	68.16	65-75
6	Density, g/cc	2.43	2.42	–

Note:-
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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-03-25-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 27-03-17**
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	25-03-17
Sample ID No	:	2017-03-25-03/02
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	25-03-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	4.8
4	Average percentage	%	4.9	

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Lab ID : CP-RW-2017-03-25-03
Sample ID No : 2017-03-25-03/02
Date: 27-03-17

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	23	23	4.84	95.2	90-100
19	47	70	14.74	85.3	71-95
13.2	49	119	25.05	74.9	56-80
4.75	106	225	47.37	52.6	38-54
2.36	92	317	66.74	33.3	28-42
0.3	65	382	80.42	19.6	7-21
0.075	80	462	97.26	2.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	21	21	4.41	95.6	90-100
19	48	69	14.50	85.5	71-95
13.2	53	122	25.63	74.4	56-80
4.75	167	289	60.71	39.3	38-54
2.36	14	303	63.66	36.3	28-42
0.3	85	388	81.51	18.5	7-21
0.075	59	447	93.91	6.1	2-8

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-03-25-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	25-03-17
Sample ID No	:	2017-03-25-03/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	25-03-17

Date: 27-03-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	5.0
4	Average percentage	%	5.0	

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Lab ID : CP-RW-2017-03-25-03

Sample ID No : 2017-03-25-03/01 **Date: 27-03-17**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	23	23	4.84	95.2	90-100
19	47	70	14.74	85.3	71-95
13.2	49	119	25.05	74.9	56-80
4.75	106	225	47.37	52.6	38-54
2.36	92	317	66.74	33.3	28-42
0.3	65	382	80.42	19.6	7-21
0.075	80	462	97.26	2.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	25	25	5.26	94.7	90-100
19	47	72	15.16	84.8	71-95
13.2	50	122	25.68	74.3	56-80
4.75	104	226	47.58	52.4	38-54
2.36	95	321	67.58	32.4	28-42
0.3	63	384	80.84	19.2	7-21
0.075	76	460	96.84	3.2	2-8

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2017-03-17-03 **Date: 22-03-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/113/2016-17

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 17-03-17

Sample ID No : 2017-03-17-03/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 18-03-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.43	11.44	10KN(min)
2	Marshal flow at 60°C, mm	3.65	3.54	2-4
3	Percent air Voids	4.15	4.33	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.97	14.73	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.92	71.31	65-75
6	Density, g/cc	2.24	2.26	–

Note:-

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2017-03-17-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-03/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	18-03-17
Oven Dry Weight	:	5000 Grams

Date: 22-03-17

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	87	87	1.7	98.3	90-100
9.5	689	776	15.5	84.5	70-88
4.75	899	1675	33.5	66.5	53-71
2.36	598	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	705	3470	69.4	30.6	26-38
0.3	326	3796	75.9	24.1	18-28
0.15	450	4246	84.9	15.1	12-20
0.075	354	4600	92.0	8.0	4-10
PAN	400	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-03-17-03** **Date: 22-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-03-17
Sample ID No	:	2017-03-17-03/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	18-03-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.5	1.5		

Note:
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Certificate No.: T- 4358

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID : CP-RW-2017-03-17-03 **Date: 22-03-17**
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample : Sample supplied by the Agency
Sample Condition : Satisfactory
Date of Receipt : 17-03-17
Sample ID No : 2017-03-17-03/01
Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)
Date of test : 19-03-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2229	2147	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1438	1419	
4	Weight of Saturated Surface Dry aggregate	B	grams	2317	2296	
5	Weight of oven dried aggregate	C	grams	2310	2290	
6	Specific gravity	C/(B-A)		2.63	2.61	2.62
7	Apparent Specific gravity	C/(C-A)		2.65	2.63	2.64
8	Water absorption	100*(B-C) /C	Percent	0.30	0.26	0.28

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-03-28-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 30-03-17**
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	28-03-17
Sample ID No	:	2017-03-28-03/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	28-03-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	501
2	Weight of the sample After extraction	B	471	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.99	5.99
4	Average percentage	%	6.0	

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-RW-2017-03-28-03 **Date: 30-03-17**

Sample ID : 2017-03-28-03/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	14	14	3.0	97.0	90-100
9.5	69	83	17.6	82.4	70-88
4.75	121	204	43.3	56.7	53-71
2.36	57	261	55.4	44.6	42-58
1.18	29	290	61.6	38.4	34-48
0.6	11	301	63.9	36.1	26-38
0.3	49	350	74.3	25.7	18-28
0.15	45	395	83.9	16.1	12-20
0.075	41	436	92.6	7.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.8	97.2	90-100
9.5	67	80	17.0	83.0	70-88
4.75	123	203	43.1	56.9	53-71
2.36	55	258	54.8	45.2	42-58
1.18	31	289	61.4	38.6	34-48
0.6	9	298	63.3	36.7	26-38
0.3	48	346	73.5	26.5	18-28
0.15	47	393	83.4	16.6	12-20
0.075	48	441	93.6	6.4	4-10

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

End of Report

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